FNR 340 – WILDLAND FIRE MGT.
Cal Poly State University – December 2005

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COURSE DESCRIPTION:

Wildland fuels, fire weather, and fire danger ratings in chaparral, grassland, and forested areas. Advanced modelling of surface and crown fire behavior. Fire management strategies and implications. Policies and objectives of fire management organizations.

COURSE OBJECTIVES

Upon completion of this course, students should gain a basic understanding of:

1. Wildland fuel models
2. Fire behavior calculations and computer modeling
3. Smoke management
4. Prescribed fire and fuels management
5. Wildland-Urban Interface
6. Wildland fire policy

TEXTBOOK:

FNR 340 handbook
FNR 340 CD-Rom

INFORMATIVE WEB SITES:

1) Fire.org (Fire software downloads) – http://fire.org/
2) RAWS USA Climate Maps – http://www.wrcc.dri.edu/wraws/
3) California Weather Data & Fire Occurrence – http://famweb.nwcg.gov/weatherfirecd/california.htm
4) Wildland Fire – http://wildlandfire.com/
5) National Interagency Fire Center – http://www.nifc.gov/
6) U.S. Fire & Aviation Management – http://www.fs.fed.us/fire/
7) CDF Fire & Emergency Response – http://www.fire.ca.gov/php/fire_er.php
8) Firewise (wildland/urban interface) – http://www.firewise.org/

GRADING

The grade for this course will be based on the sum of 3 daily proficiency checks, class assignments, and a comprehensive final.

Source	Points	Total %
1. Three proficiency checks	100	33.3
2. Assignments	100	33.3
3. Comprehensive final	100	33.3
Total	**300**	**100**

Grade standards
A: 90-100%
B: 80-89.99%
C: 70-79.99%
D: 60-69.99%
F: <60%

Instructor reserves right to give '+' or '-' to final course grade dependant on student's ending total points in the course and a subjective evaluation of individual student's attitude and class participation.

TENTATIVE SCHEDULE

Date	Subject
Monday 12/12	Introduction & course logistics Review of wildland fire behavior Introduction to fire prediction systems Wildland fuel models FireFamilyPlus fire climatology software BehavePlus fire prediction software
Tuesday 12/13	Proficiency check BehavePlus fire prediction software FARSITE – Fire Area Simulator
Wednesday 12/14	Proficiency check Crown fires NEXUS crown fire hazard analysis software Smoke Management FOFEM – First Order Fire Effects Model
Thursday 12/15	Proficiency check Prescribed fire Healthy Forests Initiative Wildland/Urban Interface National Fire Danger Rating System
Friday 12/16	Comprehensive final exam